

Title (en)
STEEL, PROCESS FOR MANUFACTURING THE SAME, AND LNG TANK

Title (de)
STAHL, VERFAHREN ZU SEINER HERSTELLUNG UND FLÜSSIGGASTANK

Title (fr)
ACIER, PROCÉDÉ POUR SA PRODUCTION ET CUVE POUR GNL

Publication
EP 2871255 A1 20150513 (EN)

Application
EP 13887092 A 20130619

Priority
JP 2013066825 W 20130619

Abstract (en)
A steel is provided in which a lower limit of an amount of retained ³ at a (1/4)t location regarding a plate thickness t of the steel is 4.0 volume%, the retained ³ has a form in which an upper limit of an average of an aspect ratio thereof is 2.5 and an upper limit of an average of a major axis thereof is 0.85 μm, and an average Mn concentration in the retained ³ and an average Ni concentration in the retained ³ satisfy relationships of [Mn] retained ³ > [Mn] ± × 1.4, and [Ni] retained ³ > [Ni] ± × 1.4.

IPC 8 full level
C21D 8/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/58** (2006.01)

CPC (source: CN EP KR)
C21D 6/001 (2013.01 - EP KR); **C21D 8/02** (2013.01 - CN); **C21D 8/0205** (2013.01 - EP KR); **C22C 38/001** (2013.01 - CN EP); **C22C 38/002** (2013.01 - EP); **C22C 38/005** (2013.01 - CN EP); **C22C 38/008** (2013.01 - CN EP); **C22C 38/02** (2013.01 - CN EP KR); **C22C 38/04** (2013.01 - CN EP KR); **C22C 38/06** (2013.01 - CN EP KR); **C22C 38/08** (2013.01 - EP KR); **C22C 38/12** (2013.01 - EP); **C22C 38/14** (2013.01 - EP); **C22C 38/16** (2013.01 - EP); **C22C 38/42** (2013.01 - CN EP); **C22C 38/44** (2013.01 - CN EP); **C22C 38/46** (2013.01 - CN EP); **C22C 38/48** (2013.01 - CN EP); **C22C 38/50** (2013.01 - CN EP); **C22C 38/54** (2013.01 - CN EP); **C22C 38/58** (2013.01 - CN); **F17C 1/12** (2013.01 - KR)

Cited by
EP3730657A4; EP3712290A4; EP3418411A4; EP3699310A4; US11208703B2; US11608549B2; US11591679B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2871255 A1 20150513; **EP 2871255 A4 20160106**; **EP 2871255 B1 20170503**; CN 104520461 A 20150415; CN 104520461 B 20160615; JP 5561442 B1 20140730; JP WO2014203347 A1 20170223; KR 101572786 B1 20151127; KR 20150020258 A 20150225; WO 2014203347 A1 20141224

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